

Work Order ID 62018

Wednesday, September 15, 2010 10:00:19 A



Page 1

Item ID: D4003-5

Accept



Setup Start



Revision ID:

Item Name: Fuel Pick Up Line

Stop



Start Date: 9/14/2010 Start Qty: 2.00



Cust Item ID:

Required Date: 9/21/2010 Req'd Qty: 2.00



Customer:

Reference:

Approvals:

Process Plan:

*M*Date: 10-9-15 Tooling:

Date:

Run Start



QC:

Date: _____ SPC (Y/N): _____

Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

Draw Nbr

Revision Nbr

D4003

A

0.00

100



Doosan

Memo

0.00

*PL 10.10.12**2*

Doosan Lathe

1- Cut tube as per dwg

FA911

FOLIO REV: n/aDWG REV: A

DEBURR

110

QC2- Inspect parts off machine FAI/FAIB

0.00



QC

Memo

0.00

*PL 10.10.12**2*

Quality Control

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 62018

Page 2

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Setup

Start



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Start Date: 9/14/2010 Start Qty: 2.00



Cust Item ID:

Required Date: 9/21/2010 Req'd Qty: 2.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center ID

120



QC

Quality Control

Operation
Description

QC8- Inspect parts - second check

Set Up/
Run Hours

0.00

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp
 10/10/12

150

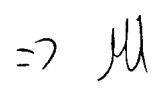


HandFinish

Hand Finishing

Chemical Conversion Coat per QSI005 4.1

0.00

 10/10/12

0.00

 10/10/12

160

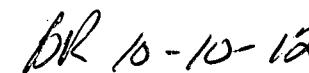


QC

Quality Control

QC3- Inspect Part Finish

0.00

 10-10-12

0.00

 10-10-12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries

Work Order ID 62018

Page 3

Wednesday, September 15, 2010 10:00:19 A

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Setup Start



Revision ID:

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Stop



Start Date: 9/14/2010 Start Qty: 2.00



Cust Item ID:

Required Date: 9/21/2010 Req'd Qty: 2.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center ID

170



Packaging

Packaging

Operation
Description

Identify as per dwg & Stock Location:

Set Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

0.00

0.00

Perf/13 0

180



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

*10/10/13 JMF
10-10-13*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Wednesday, September 15, 2010 10:00:23 AM

Page 1

Work Order ID: 62018



Parent Item: D4003-5



Parent Item Name: Fuel Pick Up Line

Start Date: 9/14/2010

Required Date: 9/21/2010

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP rev A 10.01.11 new issue Prelim EC verified by:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6T0.500W.035		Purchased	No			100	f	249.8900	3	6.315789		10-10-12	

6061-T6 RD Tube .500 x.035W



Location	Loc Qty	Loc Code
MAT014	249.89	
4692	249.89	5.835

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	62018
Description: FUEL PICK UP LINE	Part Number:	D4003 - 5
Inspection Dwg:	Rev:	Page 1 of 1

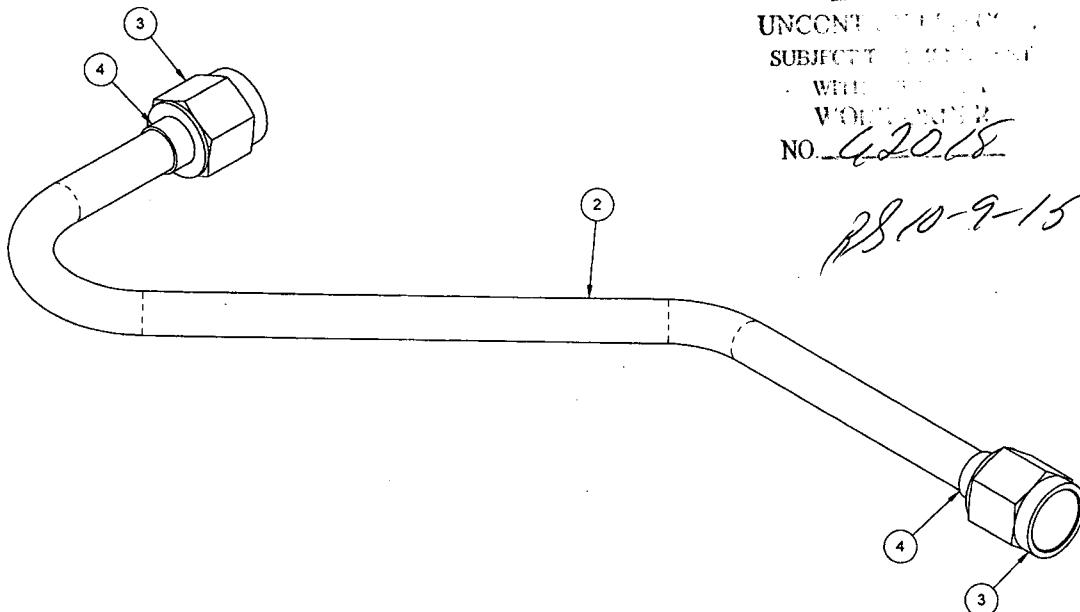
FIRST ARTICLE INSPECTION CHECKLIST

Measured by: <u>ad</u>	Audited by: <u>ad</u>	Preliminary Approval:
Date: <u>10.10.12</u>	Date: <u>10/10/12</u>	Date:

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	

10.06.15

ITEM NO.	QTY. -047	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4003-047	FUEL PUMP INLET PIPE	JCA-M47-2-16
2	1	D4003-7	FUEL INLET PIPE	
3	2	AN818-6D	NUT	
4	2	MS20819-6D	SLEEVE	



D4003-047 FUEL PUMP INLET PIPE

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4003-047" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.07 lbs

SHOP
RPT
ENG
UNCONVENTIONAL
SUBJECT
WH
VOL
NO. 42068

280-9-15

RELEASED
2010-05-05
MAP

A	NEW ISSUE	10.02.05
REV.	DESCRIPTION	BY DATE
DESIGN	<i>AB</i>	
DRAWN	<i>AB</i>	
CHECKED	<i>AB</i>	
MFG. APPR.	<i>AB</i>	
APPROVED	<i>AB</i>	
DE APPR.	<i>AB</i>	
DATE	10.02.05	

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

REV. A
SHEET 1 OF 9

DRAWING NO.
D4003

TITLE
LINE
NTS

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

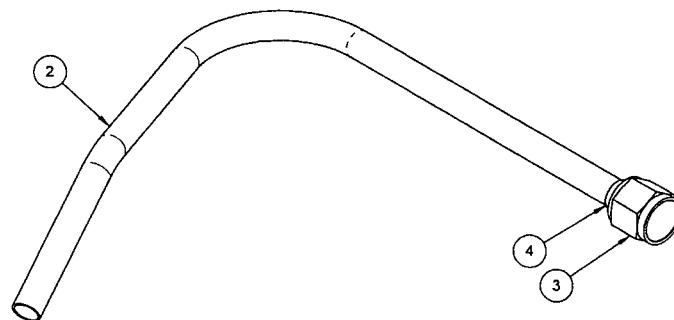
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

ITEM NO.	QTY. -049	PART NUMBER	DESCRIPTION	JOHN CAMERON AVIATION PART NUMBER
1	X	D4003-049	TANK VENT LINE ASSEMBLY	JCA-M47-2-17
2	1	D4003-9	VENT LINE	
3	1	AN818-8D	NUT	
4	1	MS20819-8D	SLEEVE	



D4003-049 TANK VENT LINE ASSEMBLY

u/o 6/20/8

RELEASED
R 2010-05-05
MW

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4003-049" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.11 lbs

DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		
MFG. APPR.		
APPROVED		
DE APPR.		
DATE	10.02.05	
DRAWING NO.	D4003	REV. A
		SHEET 2 OF 9
TITLE	LINE	NTS

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date				

NOTE: Date & initial all entries

8

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DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-1	REF JCA-M47-1-06

D

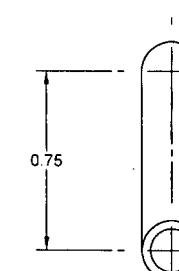
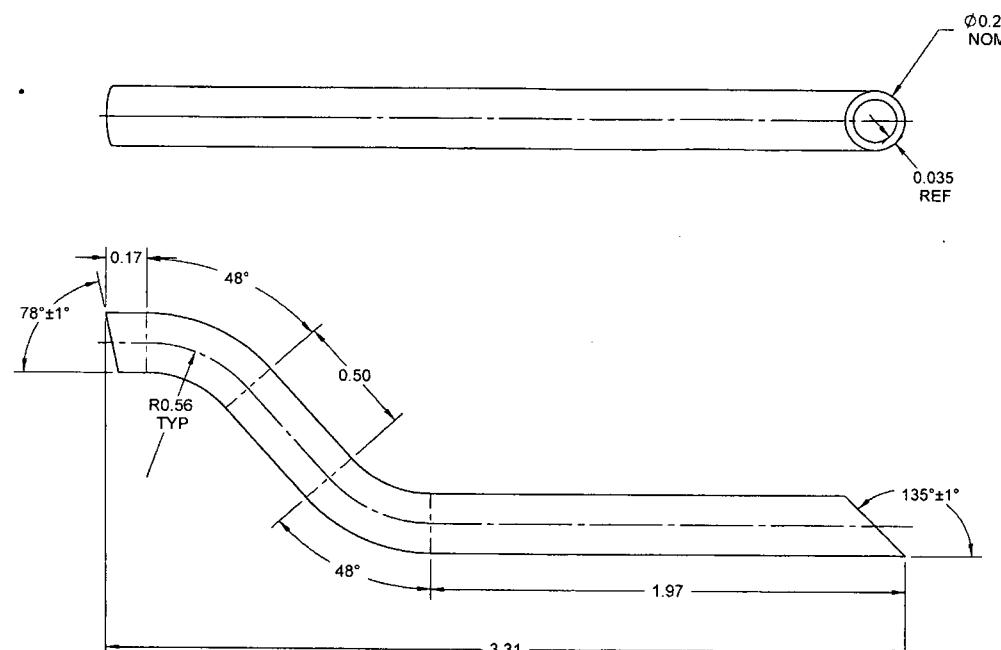
D

C

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B

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W0 U2018

RELEASED
2010-05-05
AM

D4003-1 INTERNAL DRAIN LINE, AFT

A NOTES:

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, $\phi 0.25 \times 0.035$ WALL THICKNESS
PER VW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8
REF DART SPEC 6061T6T0.250W.035
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.01 lbs

8

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DESIGN	<i>AB</i>	DART AEROSPACE LTD	
DRAWN	<i>AB</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AB</i>		
MFG. APPR.	<i>AB</i>	DRAWING NO. D4003	
APPROVED	<i>AB</i>	REV. A SHEET 3 OF 9	
DE APPR.	<i>AB</i>	TITLE LINE	
DATE	10.02.05	SCALE	NTS

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DATE	STEP	PROCEDURE CHANGE			By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector	
			Initial Chief Eng	Action Description Chief Eng	Sign & Date				

NOTE: Date & initial all entries

8

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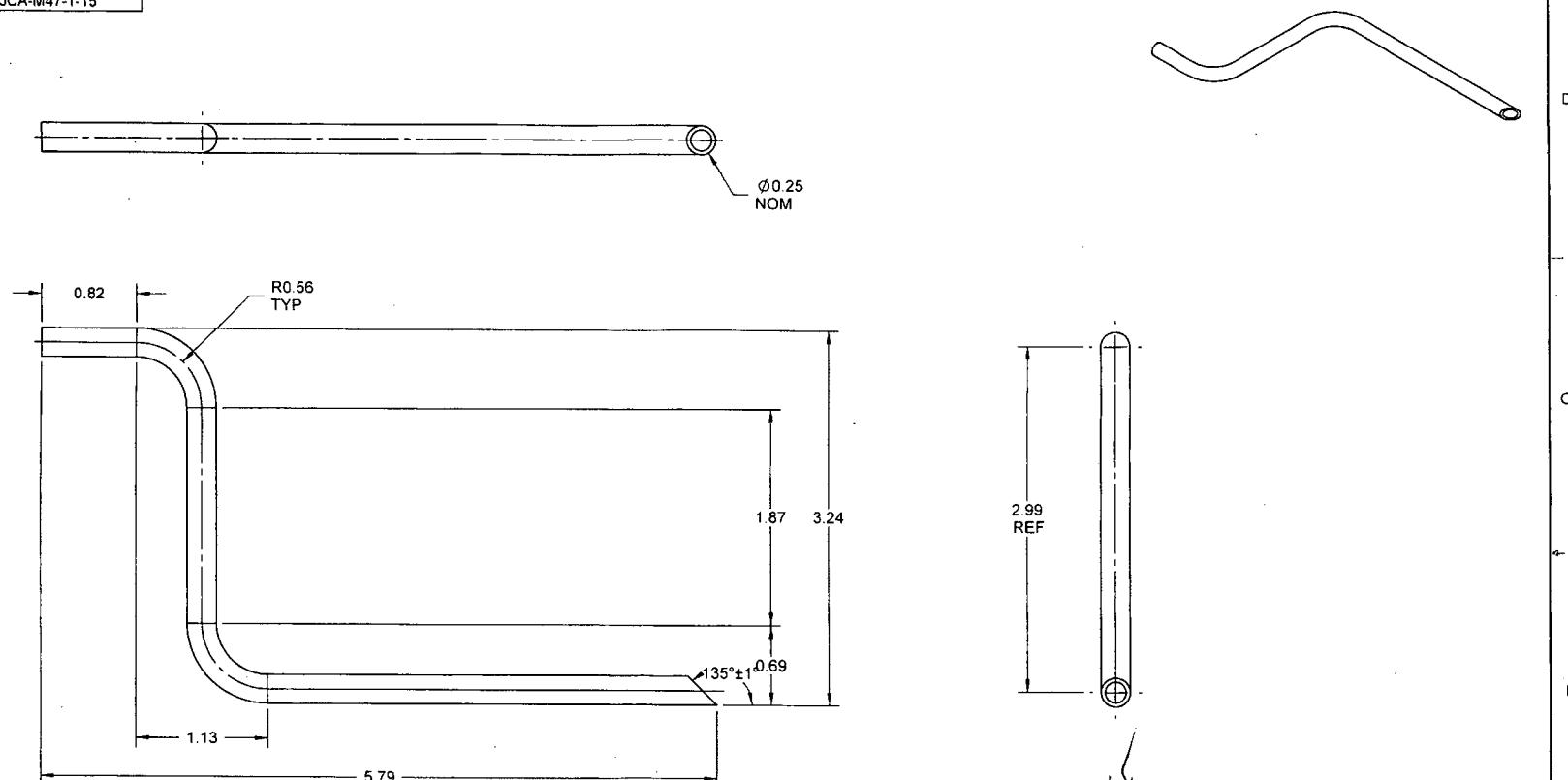
4

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2

1

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-3	REF JCA-M47-1-15



D4003-3 INTERNAL DRAIN LINE, FWD

A NOTES:

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, $\phi 0.25 \times 0.035$ WALL THICKNESS
PER VW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8
REF DART SPEC 6061T6T0.250W.035
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

DESIGN	<i>AB</i>	DART AEROSPACE LTD
DRAWN	<i>AB</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>AB</i>	
MFG. APPR.	<i>AB</i>	REV. A
APPROVED	<i>AB</i>	SHEET 4 OF 9
DE APPR.	<i>AB</i>	
DATE	10.02.05	NTS

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-5	REF JCA-M47-1-10

D

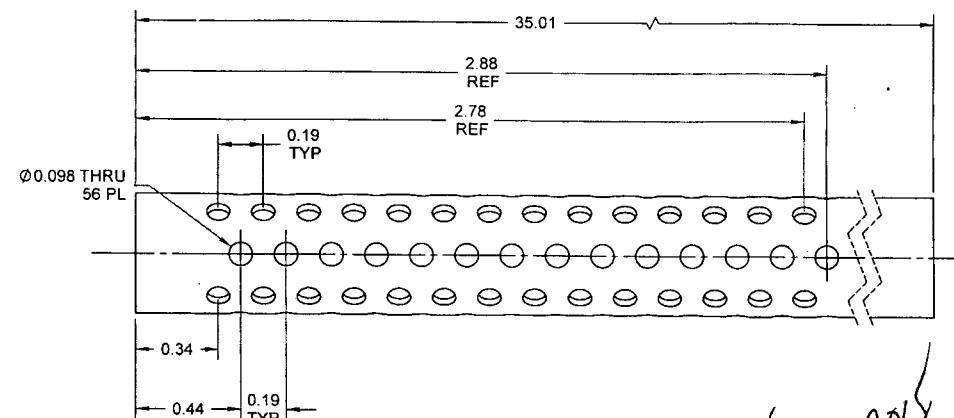
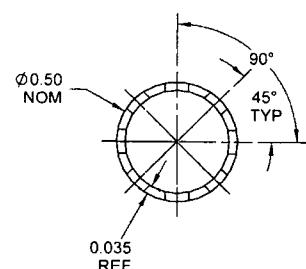
D

C

C

B

B



D4003-5 FUEL PICK UP LINE

RELEASED
2010-05-05
MP

A NOTES:

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, Ø0.500 X 0.035 WALL THICKNESS
REF VW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8
REF DAT SPEC M6061T6T0.500W.035
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.17 lbs

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1

DESIGN	<i>AB</i>	DART AEROSPACE LTD	
DRAWN	<i>AB</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>AB</i>	DRAWING NO.	
MFG. APPR.	<i>E</i>	REV. A	
APPROVED	<i>AB</i>	D4003	
DE APPR.	<i>AB</i>	SHEET 5 OF 9	
DATE	10.02.05	TITLE	
		SCALE	
		LINE	
		NTS	

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NOTE: Date & initial all entries

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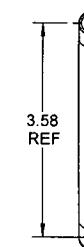
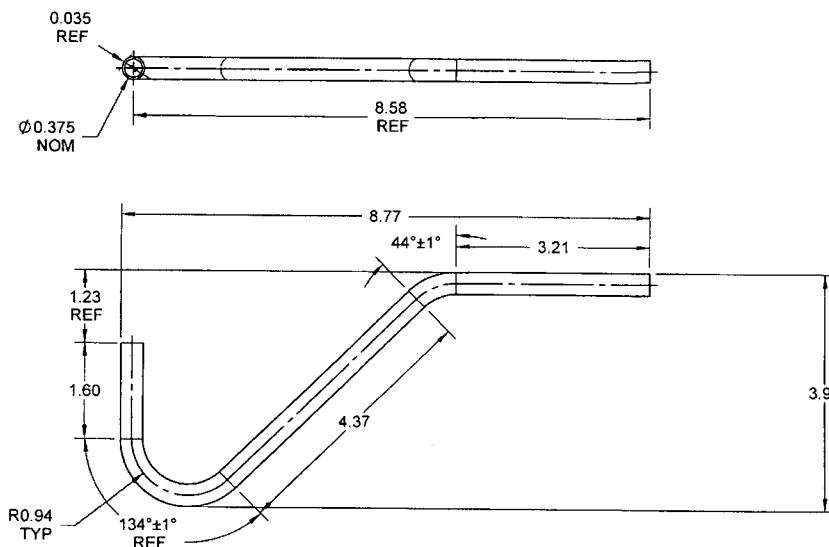
2

1

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-7	REF JCA-M47-2-16

D

D



10 6/2018

D4003-7 FUEL INLET PIPE

RELEASED
2010-05-05
MP

A NOTES:

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, Ø0.375 X 0.035 WALL THICKNESS PER WW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8 REF DART SPEC M6061T6T0.375W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.04 lbs

DESIGN	<i>BB</i>	DART AEROSPACE LTD
DRAWN	<i>BB</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>BB</i>	REV. A
MFG. APPR.	<i>BB</i>	SHEET 6 OF 9
APPROVED	<i>BB</i>	TITLE
DE APPR.	<i>BB</i>	SCALE
DATE	10.02.05	NTS

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W/O:		WORK ORDER CHANGES					
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8

7

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5

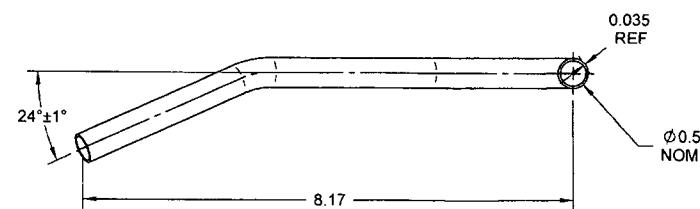
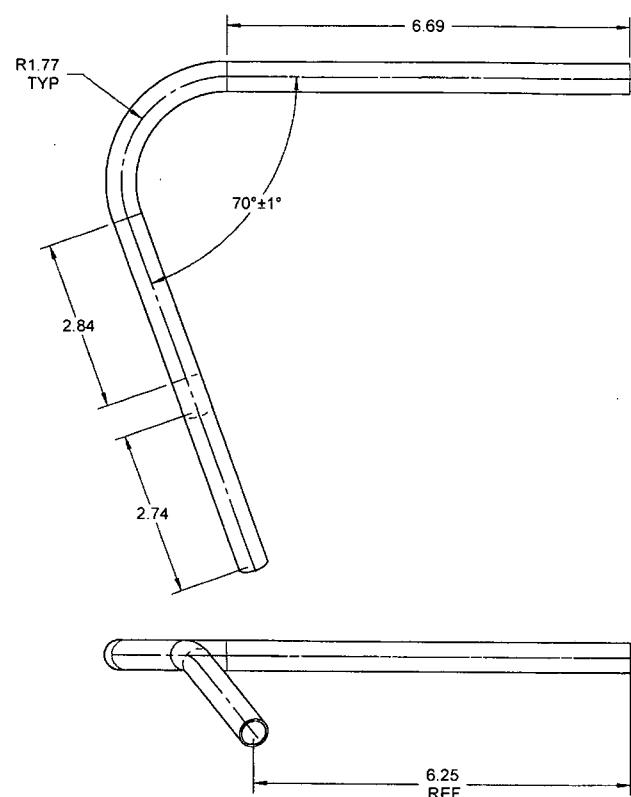
4

3

2

1

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-9	REF JCA-M47-2-17



D4003-9 VENT LINE

WB 6207

RELEASED
2010-05-05
MP

NOTES:

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, $\phi 0.500 \times 0.035$ WALL THICKNESS
PER VW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8
REF DART SPEC M6061T60.500W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.08 lbs

DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		REV. A
MFG. APPR.		SHEET 7 OF 9
APPROVED		
DE APPR.		NTS
DATE	10.02.05	

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8

7

6

5

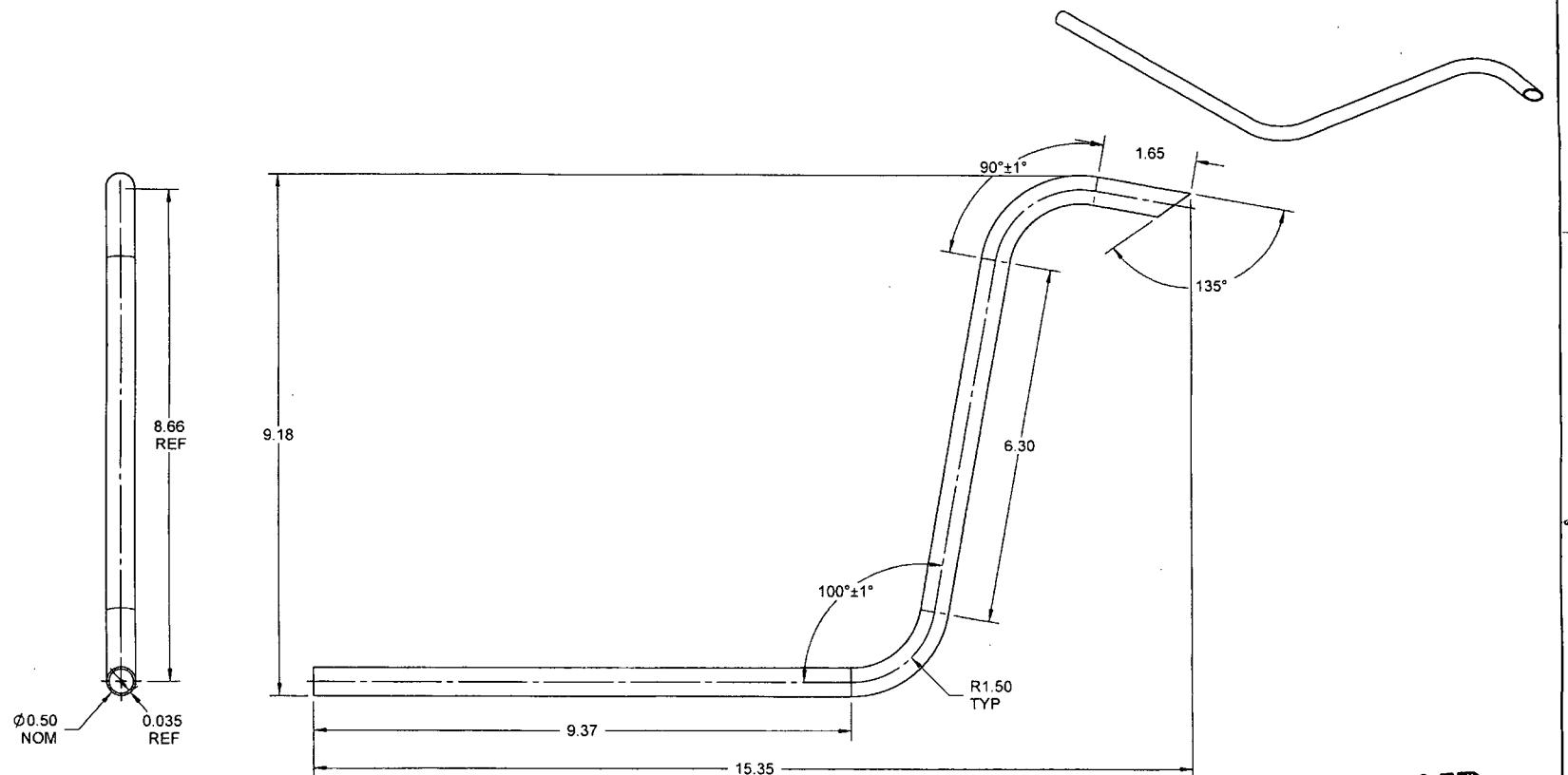
4

3

2

1

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-11	JCA-M47-2-21



D4003-11 VENT PIPE - TANK

RELEASED
2010-05-05
MP
Wk 628

A NOTES:

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, Ø0.500 X 0.035 WALL THICKNESS PER WW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8 REF DART SPEC M6061T60.500W.035
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4003-11" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.11 lbs

8

7

6

5

4

3

2

1

DESIGN	<i>BB</i>	DART AEROSPACE LTD
DRAWN	<i>BB</i>	HAWKESBURY, ONTARIO, CANADA
CHECKED	<i>BB</i>	REV. A
MFG. APPR.	<i>BB</i>	D4003 SHEET 8 OF 9
APPROVED	<i>BB</i>	TITLE
DE APPR.	<i>BB</i>	SCALE
DATE	10.02.05	NTS

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

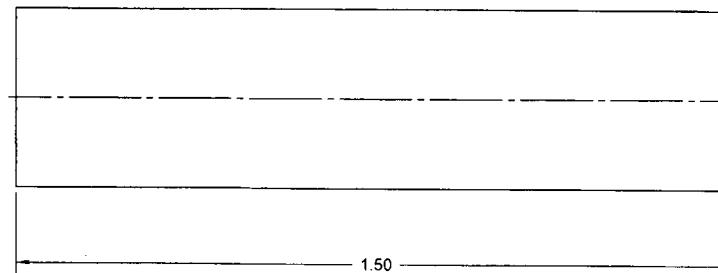
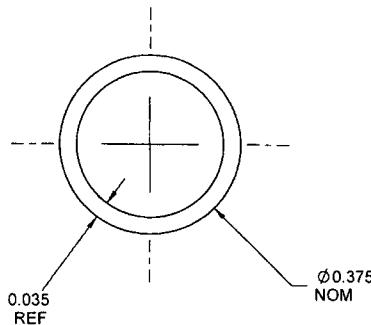
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4003-13	REF JCA-M47-2-22



D4003-13 FORWARD FUEL GUTTER LINE

W/0 40018

RELEASED
2010-05-05
JP

A NOTES:

- 1) MATERIAL: 6061-T6 OR 6061-T62 ALUMINUM TUBING, Ø0.375 X 0.035 WALL THICKNESS PER VW-T-700/6 OR AMS 4080 OR AMS 4082 OR QQ-A-200/8 OR QQ-A-225/8 REF DART SPEC M6061T6T0.375W.035
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.01 lbs

DESIGN		DART AEROSPACE LTD
DRAWN		HAWKESBURY, ONTARIO, CANADA
CHECKED		REV. A
MFG. APPR.		D4003
APPROVED		SHEET 9 OF 9
DE APPR.		TITLE LINE
DATE	10.02.05	SCALE NTS

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries